

12

EUROPEAN PATENT APPLICATION

21 Application number: **88630021.9**

51 Int. Cl.4: **F24D 3/08 , F24H 1/43**

22 Date of filing: **08.02.88**

30 Priority: **20.02.87 US 17309**

43 Date of publication of application:
24.08.88 Bulletin 88/34

84 Designated Contracting States:
DE ES FR GB IT

88 Date of deferred publication of the search report:
31.01.90 Bulletin 90/05

71 Applicant: **CARRIER CORPORATION**
Carrier Tower 6304 Carrier Parkway P.O. Box
4800
Syracuse New York 13221(US)

72 Inventor: **Ripka, Chester D.**
237 Kinne Street No. 3
East Syracuse New York 13057(US)
Inventor: **Boot, Jay L.**
4752 Pinehurst Lane
St. Joseph Michigan 49085(US)
Inventor: **Shapiro, Ian M.**
907 Crawford Avenue
Syracuse New York 13224(US)

74 Representative: **Weydert, Robert et al**
OFFICE DENNEMEYER S.à.r.l. P.O. Box 1502
L-1015 Luxembourg(LU)

54 **Integral liquid-backed gas-fired space heating and hot water system.**

57 Domestic tankless water heating is incorporated into a space heating system (10). The space heating system (10) includes a fluid flow loop with a fluid pump (16) for circulating the fluid in the loop and a remote fan coil (14) for transferring heat to the air in the space (11) to be heated. The heat source is an infrared burner (12) and the heating of the domestic water may be either directly by the burner (12) through radiative and convective heat exchange in an open loop system or by heat exchange in a tube-in-tube heat exchanger which is in series with the fan coil in a closed loop system.

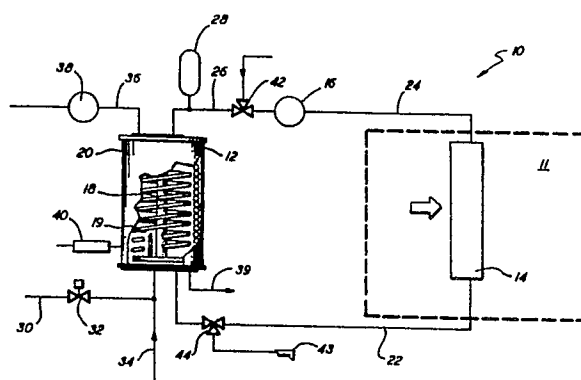


FIG. 1

EP 0 279 767 A3



EP 88 63 0021

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
Y	GB-A-1 093 761 (RADIATION LTD.) * claim 1 * ---	1	F 24 D 3/08 F 24 H 6/00
Y	EP-A-0 027 055 (STELRAD GROUP LTD.) * claims 1,3,4 * ---	1,4	F 24 H 1/44 F 24 H 1/43
A	FR-A-2 559 574 (R. DANTEC) * page 2, line 22 - page 3, line 6 * ---	2	
A	DE-A-1 753 212 (P. JOKUSZIES) * page 2, paragraph 4 - page 3, paragraph 1 * ---	3,4	
Y	DE-A-1 454 520 (I.F.P. WOLFF) * complete document * ---	4	
A	BE-A- 625 646 (CHAFFOTEUX & MAURY) * pages 4,5 * -----	4	
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			F 24 D F 24 H
The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 19-10-1989	Examiner PIEPER C
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	